

**CENTER FOR SPACE ENVIRONMENT MODELING (CSEM)
THE UNIVERSITY OF MICHIGAN**

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OPEN SOURCE COMPONENTS

The Michigan Sun-To-Earth Model with Uncertainty Quantification and Data Assimilation (MSTEM-QUDA) software has been made available in a GitHub repository under a PolyForm Noncommercial License 1.0.0. MSTEM-QUDA is fully compatible and usable from the SWMF but, for clarity, it is being made available under a separate and more permissive license.

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Users of the SWMF are required to adhere to the publication policy outlined in this section of the USE AGREEMENT. The publication policy involves four separate sections: 1) limitations on publication topics, 2) submitted publications, 3) submitted abstracts and conference presentations, and 4) acknowledgments.

In all cases of the presentation of results derived from the SWMF, the user must acknowledge the Center for Space Environment Modeling at the University of Michigan and its creators as outlined below.

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The Center for Space Environment Modeling at the University of Michigan is the sole unit that may use the SWMF to publish works pertaining to numerical methods, algorithms and parallel performance. Users may not use the SWMF to do similar research without prior permission of CSEM. Users are granted permission to use the SWMF to pursue the topics listed in the registration form only. Any significant change to this indicated use requires prior permission of The Center for Space Environment Modeling (CSEM) at the University of Michigan.

PUBLICATIONS

The SWMF has been developed by a large team of scientists at the University of Michigan. In order to acknowledge their work, we ask that the first paper using SWMF results submitted by a user include one or more of the authors of the SWMF as a co-author. Within CSEM, a publication author agreement exists which determines what subset of developers should be listed as co-authors depending on the topic of the paper. We ask that users contact CSEM upon preparation of their first paper in order to determine which SWMF developers should participate in preparation of the paper and should be listed as co-authors.

Subsequent publications should include as co-authors those scientists who participate in the submitted research in a significant way either through providing help with the use of the SWMF or through scientific collaboration. Because a thorough understanding of the numerical algorithms used in the SWMF is generally required when interpreting simulation results, we highly encourage code users to speak with scientists at the Center for Space Environment Modeling before publication.

In all papers submitted for publication, we require the authors to acknowledge the Center for Space Environment Modeling at the University of Michigan and the developers of the SWMF as outlined below in the ACKNOWLEDGMENTS section.

In order to keep a comprehensive record of the applications for which the SWMF is used, we ask authors to send a copy of all submitted abstracts. In addition, we ask that authors send a pre-print of articles being submitted for publication and re-prints of all accepted and published papers to CSEM.

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In conference presentations, scientists at CSEM should be included as co-authors when they have contributed to the presented research in a significant way either through providing help with the use of the SWMF or through scientific collaboration. In all cases, we require authors to acknowledge the Center for Space Environment Modeling at the University of Michigan and the developers of the SWMF as outlined below in the ACKNOWLEDGMENTS section.

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In published papers, authors should use the following acknowledgment:

Simulation results were obtained using the Space Weather Modeling Framework, developed by the Center for Space Environment Modeling, at the University of Michigan with funding support from NASA ESS, NASA ESTO-CT, NSF KDI, and DoD MURI.

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USER SUPPORT POLICY

As outlined in the COPYRIGHT NOTICE, this SWMF distribution is provided as is, without representation as to its fitness for a purpose and without warranty of any kind.

Although we cannot guarantee user support, bug reports and questions can be sent to swmf.support@umich.edu. Please include the following information with any submitted bug report: version number, a copy of the PARAM.in file, description of machine on which the code was run (#PEs, memory), a copy of the SWMF output, and any error messages generated by the system.

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